

# Waseem Aftab

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,462  
citations

361413

20  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering of polymer-based materials for thermal management solutions. <i>Composites Communications</i> , 2022, 29, 101048.	6.3	29
2	Role of binary metal chalcogenides in extending the limits of energy storage systems: Challenges and possible solutions. <i>Science China Materials</i> , 2022, 65, 559-592.	6.3	8
3	Emerging Solidâ€”Solid Phaseâ€”Change Materials for Thermalâ€”Energy Harvesting, Storage, and Utilization. <i>Advanced Materials</i> , 2022, 34, .	21.0	59
4	Phase-change materials reinforced intelligent paint for efficient daytime radiative cooling. <i>IScience</i> , 2022, 25, 104584.	4.1	16
5	Visualization of battery materials and their interfaces/interphases using cryogenic electron microscopy. <i>Materials Today</i> , 2022, 58, 238-274.	14.2	17
6	Copper Sulfide Nanodisk-Doped Solidâ€”Solid Phase Change Materials for Full Spectrum Solar-Thermal Energy Harvesting and Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1377-1385.	8.0	46
7	Phase change material-integrated latent heat storage systems for sustainable energy solutions. <i>Energy and Environmental Science</i> , 2021, 14, 4268-4291.	30.8	193
8	Synthesis and characterization of hydroxyethyl cellulose copolymer modified polyurethane bionanocomposites. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 345-352.	7.5	7
9	Synthesis and molecular characterization of chitosan/alginate blends based polyurethanes biocomposites. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 324-331.	7.5	9
10	Preparation and characterization of guar gum based polyurethanes. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 2174-2183.	7.5	15
11	Surface modified boron nitride towards enhanced thermal and mechanical performance of thermoplastic polyurethane composite. <i>Composites Part B: Engineering</i> , 2021, 218, 108871.	12.0	53
12	Flexible phase change materials for thermal energy storage. <i>Energy Storage Materials</i> , 2021, 41, 321-342.	18.0	128
13	Engineering the Thermal Conductivity of Functional Phaseâ€”Change Materials for Heat Energy Conversion, Storage, and Utilization. <i>Advanced Functional Materials</i> , 2020, 30, 1904228.	14.9	202
14	Facile preparation of flexible eicosane/SWCNTs phase change films via colloid aggregation for thermal energy storage. <i>Applied Energy</i> , 2020, 260, 114320.	10.1	32
15	Hydroxyethylcellulose-g-poly(lactic acid) blended polyurethanes: Preparation, characterization and biological studies. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 993-1003.	7.5	14
16	Synthesis and characterization of graphene nanoplatelets-hydroxyethyl cellulose copolymer-based polyurethane bionanocomposite system. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1889-1899.	7.5	15
17	Highly efficient solar-thermal storage coating based on phosphorene encapsulated phase change materials. <i>Energy Storage Materials</i> , 2020, 32, 199-207.	18.0	77
18	Microwaves heating strategy to synthesize few layer graphene for polymer composites towards thermal and electrical applications. <i>Composites Science and Technology</i> , 2020, 200, 108402.	7.8	5

#	ARTICLE	IF	CITATIONS
19	Tuning the flexibility and thermal storage capacity of solidâ€“solid phase change materials towards wearable applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20133-20140.	10.3	119
20	Carbon Fibers Embedded With Iron Selenide (Fe <sub>3</sub> Se <sub>4</sub> ) as Anode for High-Performance Sodium and Potassium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020, 8, 408.	3.6	30
21	Structural elucidation and biological aptitude of modified hydroxyethylcellulose-polydimethyl siloxane based polyurethanes. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 426-440.	7.5	13
22	Encapsulating Trogtalite CoSe <sub>2</sub> Nanobuds into BCN Nanotubes as High Storage Capacity Sodium Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1901778.	19.5	131
23	A BN analog of two-dimensional triphenylene-graphdiyne: stability and properties. <i>Nanoscale</i> , 2019, 11, 9000-9007.	5.6	12
24	Synergistic Effect of Coâ€“Ni Hybrid Phosphide Nanocages for Ultrahigh Capacity Fast Energy Storage. <i>Advanced Science</i> , 2019, 6, 1802005.	11.2	130
25	Ultrafast Sodium/Potassiumâ€“ion Intercalation into Hierarchically Porous Thin Carbon Shells. <i>Advanced Materials</i> , 2019, 31, e1805430.	21.0	214
26	Polyurethane-based flexible and conductive phase change composites for energy conversion and storage. <i>Energy Storage Materials</i> , 2019, 20, 401-409.	18.0	192
27	Tunable Free-Standing Coreâ€“Shell CNT@MoSe <sub>2</sub> Anode for Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 14622-14631.	8.0	78
28	Synthesis and characterization of chitin/curcumin blended polyurethane elastomers. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 150-158.	7.5	24
29	Nanoconfined phase change materials for thermal energy applications. <i>Energy and Environmental Science</i> , 2018, 11, 1392-1424.	30.8	445
30	Large-scale fabrication of BCN nanotube architecture entangled on a three-dimensional carbon skeleton for energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21225-21230.	10.3	62
31	Fe <sub>2</sub> N/S/N Codecorated Hierarchical Porous Carbon Nanosheets for Trifunctional Electrocatalysis. <i>Small</i> , 2018, 14, e1803500.	10.0	80
32	The Application of Carbon Materials in Latent Heat Thermal Energy Storage (LHTES). , 2017, , 243-265.		7